

AMENDMENTS TO THE CLAIMS

The following is a listing of claims that replaces all prior versions, and listings, of claims in the application:

1-5. (Canceled)

6. (Withdrawn) A method, comprising:

- a) providing:
 - i) a patient implanted with a device, wherein said device comprises:
 - 1) a implantable pacemaker element; and
 - 2) a plurality of atrial and ventricular pacing leads connected to said pacemaker element, wherein said pacing leads are configured for simultaneous activation and coursing to the ventricles and atria; and
 - ii) a plurality of sensing leads connected to said pacemaker coursing to the ventricles and atria;
- b) initiating one or more pacing bursts by said pacemaker element, wherein said ventricles and atria are simultaneously paced; and
- c) detecting an earliest arriving electrical signal following termination of said pacing burst.

7. (Withdrawn) The method of Claim 6, wherein prior to step b) a cardiac arrhythmia is detected in said patient.

8. (Withdrawn) The method of Claim 6, wherein said earliest arriving electrical signal is from the ventricles.

9. (Withdrawn) The method of Claim 6, wherein said earliest arriving electrical signal is from the atria.

10. (Withdrawn) The method of Claim 6, further comprising step d) defibrillating said ventricles under conditions such that normal sinus rhythm is restored.

11-26. (Canceled)

27. (Currently Amended) A device, comprising:

- a) an implantable pacemaker element configured to initiate an anti-tachycardia pacing burst;
- b) ~~an implantable defibrillator element connected to said pacemaker element;~~
~~and,~~
- ~~e) b)~~ a plurality of atrial and ventricular sensing leads connected to said pacemaker element, wherein said sensing leads are configured to detect an earliest arriving electrical signal following the blanking period resulting from said pacing burst; and,
- c) an implantable defibrillator element connected to said pacemaker element,
said implantable defibrillator element comprising a timing device
configured to determine if said earliest arriving electrical signal was
detected by said atrial sensing lead or said ventricular sensing lead.

28. (Previously Presented) The device of Claim 27, wherein said pacemaker element comprises a microprocessor configured to initiate said pacing burst.

29. (Previously Presented) The device of Claim 27, wherein said pacemaker generates said anti-tachycardia pacing burst.

30. (Canceled)

31. (Previously Presented) The device of Claim 27, further comprising a plurality of atrial and ventricular defibrillation leads connected to said defibrillator element.

32. (Previously Presented) The device of Claim 27, further comprising a plurality of atrial and ventricular pacing leads connected to said pacemaker element.
33. (Previously Presented) The device of Claim 27, wherein said pacemaker element further comprises a storage memory connected to said sensing leads.
34. (Previously Presented) The device of Claim 27, further comprising at least one defibrillation lead configured to convert an abnormal heart rhythm into normal sinus rhythm.
35. (Previously Presented) The device of Claim 27, wherein said sensing leads are quadripolar.